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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/727,247	12/03/2003	Hans-Wilm Heinrich	KH-2017	5407	
75	90 09/29/2005		EXAMINER		
Mr. John J. Prizzi			MAI, NGOCLAN THI		
Patent Attorney		•	T		
Kennametal Inc	•		ART UNIT	PAPER NUMBER	
P.O. Box 231			1742		
Latrobe, PA 15650			DATE MAILED: 09/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	·	
		10/727,247	HEINRICH ET AL.	HEINRICH ET AL.	
Office Action Summary		Examiner	Art Unit		
-		Ngoclan T. Mai	1742		
eriod fo	The MAILING DATE of this communication a or Reply		with the correspondence addre	ss	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period tre to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUI 1.136(a). In no event, however, may of will apply and will expire SIX (6) M ute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this common ABANDONED (35 U.S.C. § 133).		
Status					
1)	Responsive to communication(s) filed on 13	June 2005.			
		nis action is non-final.			
3)	Since this application is in condition for allow	vance except for formal ma	atters, prosecution as to the me	erits is	
,	closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.		
Disposit	ion of Claims				
•	Claim(s) 21-29 and 36-41 is/are pending in t	he application			
	4a) Of the above claim(s) is/are withdr				
	Claim(s) is/are allowed.				
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>21,24-29,37 and 41</u> is/are rejected.				
·	Claim(s) <u>22,23 and 38-40</u> is/are objected to.				
· —	Claim(s) are subject to restriction and	or election requirement.			
	on Papers	·			
	The specification is objected to by the Examin	nor			
•	The drawing(s) filed on is/are: a) a		o by the Everniner		
الاردا	- · · · · · · · · · · · · · · · · · · ·	• • •	•		
	Applicant may not request that any objection to the			1 101/4\	
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the	•	-·· · · · · · · · · · · · · · · · · · ·		
,—		Examiner. Note the attach	led Office Action of form 1 10-	102.	
_	ınder 35 U.S.C. § 119				
•	Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C	. § 119(a)-(d) or (f).		
a)	☐ All b)☐ Some * c)☐ None of:	4 10			
	1. Certified copies of the priority docume				
	2. Certified copies of the priority docume	•	• •		
	3. Copies of the certified copies of the pr	•	en received in this National Sta	ge	
	application from the International Bure	, , , , , , , , , , , , , , , , , , , ,	at manaissad		
* 5	See the attached detailed Office action for a lis	st of the certified copies n	ot received.		
\ttachmen	t(s)				
	e of References Cited (PTO-892)		w Summary (PTO-413)		
	e of Draftsperson's Patent Drawing Review (PTO-948)	_	o(s)/Mail Date Informal Patent Application (PTO-15)	2)	
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>6/13/05</u> .	8) 5) 1 Notice 6	• • • • • • • • • • • • • • • • • • • •	- /	
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OL-326 (R	ev. 7-05) Office	Action Summary	Part of Paper No./Mail Dat	e 091705	



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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 6/13/05 have been fully considered but they are not persuasive.

Referring to US patent No. 6,207,262 to Ichikawa et al., composition s, t, and u, applicant argues that these compositions do not show a solid solution (carbide or carbonitride) powder of zirconium and niobium, but instead, show (Ti, Zr, Nb)CN, (Ta, Nb, Zr)C and (Ti, Ta,Zr,Nb)C. The examiner must disagrees in that the carbide and carbonitride of composition s, t, and u taught by reference, all contain both Zr and Nb as required by the claimed invention. The claims as currently cast do not exclude other metals in the composition. The teaching of these composition by reference still reads on the claimed invention.

Referring to the teaching of Usami found at paragraph [0124] and [0125], applicants essentially argues that the text of Usami does not contain a clear teaching or disclosure of the claimed solid solution carbide powder or solid solution carbonitride powder, however, the examiner disagrees in that Usami is clear in teaching that at least one of carbide, nitride and carbonitride containing both Zr and Nb. This is different from the teaching found at paragraph [0179], where powder of at least one of carbide, nitride and carbonitride of Zr and powder of powder of at least one of carbide, nitride and carbonitride of Nb to be used in the mixture. The teaching of Usami at paragraph [0124] and [0125] therefore adequately to enable possession of the claimed subject matter without undue experimentation.

Claim Rejections - 35 USC § 102

- 2. Claims 21, 26, 27, 28, 37, and 41 are rejected under 35 U.S.C. 102(a) as being Usami. The rejection was made in previous office action, which also applied to new claims 37 and 41 and is incorporated herein by reference.
- 3. Claims 21 and 24-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ichikawa et al. the rejection was made in the previous office action and is incorporated herein by reference.

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4. Claims 22-23, 36, 38-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngodan T. Mai Primary Examiner Art Unit 1742

n.m.